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NOTICE OF ALLOWANCE AND FEE(S) DUE

4743 7590 06/01/2009 MARSHALL, GERSTEIN & BORUN LLP 233 SOUTH WACKER DRIVE 6300 SEARS TOWER

CHICAGO, IL 60606-6357

MANUFACTURING METHOD USING THE SAME

| EXAMINER | | | | |
|------------------------------|--------------|--|--|--|
| MCGUTHRY BANKS, TIMA MICHELE | | | | |
| ART UNIT | PAPER NUMBER | | | |
| 1793 | | | | |
| DATE MAILED: 06/01/20 | 009 | | | |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/540,357 | 06/23/2005 | Kung-Won Nam | 29347/50784 | 3488 |

APPLN TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEES) DUE DATE DUE

TITLE OF INVENTION: APPARATUS FOR MANUFACTURING MOLTEN IRONS TO DRY AND CONVEY IRON ORES AND ADDITIVES AND

nosprovisional NO S1510 S300 S0 S1810 09/01/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.

PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS.

THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTEXDED. SEE 38 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

| appropriate. All further a indicated unless correcte maintenance fee notificat | d below or directed oth | ng the Patent, advance on herwise in Block 1, by (a | rders and notification a) specifying a new o | of n | naintenance fees v pondence address; | vill be and/or | mailed to the current r (b) indicating a sepa | com | espondence address as "FEE ADDRESS" for |
|--|---|--|---|--|---|--|---|--|--|
| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address) | | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus- have its own certificate of mailing or transmission. | | | | | |
| 233 SOUTH WA 6300 SEARS TO | OWER | | | I her State addr trans | eby certify that the s Postal Service versed to the Mail | is Fee(vith sul Stop | e of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address I) 273-2885, on the d | g dep st cla abov | osited with the United ss mail in an envelope se, or being facsimile |
| CHICAGO, IL 6 | 0606-6357 | | | | | | | | (Depositor's name) |
| | | | | | | | | | (Signature) |
| | | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVEN | TOR | | ATTO | RNEY DOCKET NO. | cc | ONFIRMATION NO. |
| 10/540,357 | 06/23/2005 | | Kung-Won Nam | | | | 29347/50784 | | 3488 |
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| nonprovisional | NO | \$1510 | \$300 | | \$0 | | \$1810 | | 09/01/2009 |
| EXAM | INER | ART UNIT | CLASS-SUBCLASS | | | | | | |
| MCGUTHRY BANK | | 1793 | 075-446000 | | | | | | |
| "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. | ondence address (or Cha 1/122) attached. cation (or "Fee Address' 2 or more recent) attach | nge of Correspondence "Indication form ed. Use of a Customer | 2. For printing on (I) the names of to or agents OR, alter (2) the name of a registered attorney 2 registered patent listed, no name will | ip to native single or a attor | 3 registered pater ely, e firm (having as a gent) and the nam neys or agents. If printed. | memb | era 2 | | |
| 3. ASSIGNEE NAME AT PLEASE NOTE: Unla recordation as set forth (A) NAME OF ASSIC | ess an assignee is ident n in 37 CFR 3.11. Comp BNEE | ified below, no assignee detion of this form is NO | data will appear on the first a substitute for filing (B) RESIDENCE: (C) | he pa g an a | ntent. If an assign assignment. and STATE OR C | OUNT | TRY) | | |
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| 4a. The following fee(s) a Issue Fee Publication Fee (N Advance Order - # | o small entity discount p | | b. Payment of Fee(s): (A check is enclos Payment by credi The Director is he overpayment, to I | ed. t care | 1. Form PTO-2038 | is atta | iched. required fee(s), any de | ficie | |
| 5. Change in Entity Stat | us (from status indicated SMALL ENTITY state | | □ b. Apolicant is no | lone | tor claiming SMA | II EN | FITY status. Sec 37 C | ER 1 | 27(a)(2) |
| NOTE: The Issue Fee and interest as shown by the r | | | | | | | | | |
| interest as shown by the r | ecords of the United Sta | tes Patent and Trademark | Office. | | | | | _ | |
| Authorized Signature | | | | | Date | | | _ | |
| Typed or printed name | | | | | Registration N | | | | |
| This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu- irginia 22313-1450. DC 13-1450. | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR | on is required to obtain 1.14. This collection is depending upon the eChief Information O COMPLETED FORM | or n s esti indiv iffice S TC | etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D THIS ADDRESS | he pub minute mmen Trader S. SEN | lic which is to file (and is to complete, including its on the amount of ti- mark Office, U.S. Dep D TO: Commissioner | i by i ng ga me yo artme for F | the USPTO to process) thering, preparing, and ou require to complete ent of Commerce, P.O. latents, P.O. Box 1450, |

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



CHICAGO, IL 60606-6357

UNITED STATES PATENT AND TRADEMARK OFFICE

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| 4743 75 | 90 06/01/2009 | | EXAMINER | | |
| MARSHALL, G | ERSTEIN & BORU | MCGUTHRY BANKS, TIMA MICHELE | | | |
| 233 SOUTH WACKER DRIVE | | | ART UNIT | PAPER NUMBER | |
| 6300 SEARS TOV | /ER | | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 475 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 475 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/540 357 NAM ET AL. Notice of Allowability Examiner Art Unit TIMA M MCGUTHRY-BANKS 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 3/9/2009. 2. The allowed claim(s) is/are 1-8. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. ___ 3. X Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 6 Interview Summery (PTO-413) Notice of Draftperson's Patent Drawing Review (PTO-946). Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Pacer No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material

9. ☐ Other

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: Kepplinger et al (US 5,584,910) does not disclose or suggest using branched exhaust gas comprising less than all of the exhaust gas that is exhausted from the fluidized bed. Kepplinger et al teaches that part of the partially oxidized reducing gas goes to the fluidized-layer preheating reactor and part is burnt for heating, which reads therefore on all of the exhaust gas.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMA M. MCGUTHRY-BANKS whose telephone number is (571)272-2744. The examiner can normally be reached on M-F 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Wyszomierski/ Primary Examiner Art Unit 1793

/T. M. M./ Examiner, Art Unit 1793 29 May 2009